IN THE CLAIMS

Please amend the claims as follows:

Claims 1-17 (Canceled).

Claim 18 (Currently Amended): A calixresorcinarene compound shown by formula (1),

wherein R individually represents a hydrogen atom, a 1-tetrahydropyranyl group, a 1-tetrahydrofuranyl group, or one or more organic groups selected from the group consisting of the organic groups shown by the following formulas,

wherein n individually represents an integer of 1 to 50,

provided that a compound in which R is selected only from a hydrogen atom, a 1-tetrahydropyranyl group and a 1-tetrahydrofuranyl group is excluded.

Claim 19 (Previously Presented): A method for the purification of a calixresorcinarene compound according to claim 18 comprising washing said compound with an acidic aqueous solution and processing the washed compound with an ion-exchange resin.

Claim 20 (Previously Presented): A photoresist base material for extreme ultraviolet radiation and/or an electron beam comprising the calixresorcinarene compound according to claim 18 and shown by formula (1).

Claim 21 (Previously Presented): A photoresist composition for extreme ultraviolet radiation and/or an electron beam comprising the photoresist base material according to claim 20 and a solvent.

Claim 22 (Previously Presented): The photoresist composition according to claim 21, further comprising a photoacid generator.

Claim 23 (Previously Presented): The photoresist composition according to claim 21, further comprising a basic organic compound as a quenching agent.

Claims 24-32 (Cancelled).

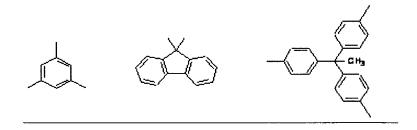
Claim 33 (Previously Presented): A method for microfabrication by lithography using the photoresist composition according to claim 21.

Claim 34 (Previously Presented): A semiconductor device prepared using the photoresist composition according to claim 21.

Claim 35 (Currently Amended): A photoresist composition comprising a photoresist base material that is an extreme ultraviolet radiation-reactive organic compound shown by formula (2), obtained by washing with an acidic aqueous solution and processing with an ion-exchange resin, a photoacid generator or a photobase generator, and a quenching agent,

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wherein A is an organic group represented by any of the following formulas,



B, C, and D are individually a hydrogen atom, a tert-butyl group, tert-butyloxycarbonylmethyl group, tert-butyloxycarbonyl group, 1-tetrahydropyranyl group, 1-tetrahydrofuranyl group, 1-ethoxyethyl group, 1-phenoxyethyl group, an organic group shown by the formula,

$$-\left(\begin{matrix} H_2 \\ C \end{matrix}\right)_{S} P - \left(\begin{matrix} O \\ O - C - O - Q \end{matrix}\right)_{r}$$

wherein P is an aromatic group having 6 to 20 carbon atoms with a valence of (r + 1), Q represents an organic group having 4 to 30 carbon atoms, r is an integer of 1 to 10, and s is an integer of 0 to 10, or an organic group represented by any of the following formulas,

$$Ar - CH_2 - Ar -$$

wherein Ar is a phenyl group or a naphthyl group substituted with RO- and/or ROCO-, wherein R is a tert-butyl group, tert-butyloxycarbonylmethyl group, tert-butyloxycarbonyl group, 1-tetrahydropyranyl group, 1-tetrahydrofuranyl group, 1-ethoxyethyl group, 1-phenoxyethyl group, or an organic group shown by the following formula,

$$\frac{-\left(\frac{H_2}{C}\right)_s}{\left(\frac{H_2}{C}\right)_s}P - \left(\frac{O}{O} - \frac{O}{C} - O - Q\right)_r$$

wherein P is an aromatic group having 6 to 20 carbon atoms with a valence of (r + 1), Q represents an organic group having 4 to 30 carbon atoms, r is an integer of 1 to 10, and s is an integer of 0 to 10, and

X, Y, and Z individually represent a single bond or an ether bond, and

$$1 + m + n = 2 \text{ or } 3$$
.

Claim 36 (Previously Presented): The photoresist composition according to claim 35, wherein the extreme ultraviolet-radiation reactive organic compound is in an amorphous state at room temperature and the average diameter of the molecule is 2 nm or less.

Claim 37 (Previously Presented Currently Amended): The photoresist composition according to claim 35, wherein A is any one of the organic groups group represented by the following formulas formula,

B, C, and D are individually a hydrogen atom, a tert-butyl group, tert-butyloxycarbonylmethyl group, tert-butyloxycarbonyl group, 1-tetrahydropyranyl group, 1-tetrahydrofuranyl group, 1-ethoxyethyl group, 1-phenoxyethyl group, or an organic group shown by the following formula,

$$- \left(\begin{matrix} H_2 \\ C \end{matrix} \right)_S P - \left(\begin{matrix} O \\ O \end{matrix} - \begin{matrix} O \\ II \end{matrix} - O - Q \end{matrix} \right)_r$$

wherein P is an aromatic group having 6 to 20 carbon atoms with a valence of (r + 1), Q represents an organic group having 4 to 30 carbon atoms, r is an integer of 1 to 10, and s is an integer of 0 to 10, and

X, Y, and Z are ether bonds.

Claim 38 (Currently Amended): A photoresist composition comprising a photoresist base material that is a radiation-reactive organic compound shown by formula (2), obtained by washing with an acidic aqueous solution and processing with an ion-exchange resin, a photoacid generator or a photobase generator, and a quenching agent,

wherein A is an organic group represented by one of the following formulas formula,

Application No. 10/594,282 Reply to Office Action of November 12, 2008

B, C, and D are individually a tert-butyloxycarbonylmethyl group, tert-butyloxycarbonyl group, or an organic group shown by formula,

$$\frac{H_2}{C} = \left(\frac{H_2}{C} \right)_S P + \left(\frac{O}{O} - \frac{O}{C} - O - Q \right)_r$$

wherein P is an aromatic group having 6 to 20 carbon atoms with a valence of (r + 1), Q represents an organic group having 4 to 30 carbon atoms, r is an integer of 1 to 10, and s is an integer of 0 to 10, and

X, Y, and Z individually represent a single bond or an ether bond, and 1 + m + n = 3 or 83.

Claim 39 (Previously Presented): The photoresist composition according to claim 38, wherein the organic group shown by the following formula,

$$-\left(\begin{array}{c} H_2 \\ C \end{array}\right)_S P - \left(\begin{array}{c} O \\ O - C - O - Q \end{array}\right)_T$$

is a 4-(tert-butoxycarbonyloxy)benzyl group or a 3,5-di(tert-butoxycarbonyloxy)benzyl group.

Claim 40 (Previously Presented): The photoresist composition according to claim 38, wherein the radiation is extreme ultraviolet radiation or an electron beam.

Reply to Office Action of November 12, 2008

Claim 41 (Previously Presented): The photoresist composition according to claim 35, wherein at least one of B, C, and D is a hydrogen atom and X, Y, and Z are ether bonds.

Claim 42 (Previously Presented): The photoresist composition according to claim 35, wherein the basic impurity content of the photoresist base material is not more than 10 ppm.

Claim 43 (New): A photoresist composition comprising a photoresist base material that is an extreme ultraviolet radiation-reactive organic compound shown by formula (2), obtained by washing with an acidic aqueous solution and processing with an ion-exchange resin, a photoacid generator or a photobase generator, and a quenching agent,

wherein A is an organic group represented by the following formula,

B, C, and D are individually an organic group shown by formula,

$$-\left(\begin{array}{c}H_2\\C\end{array}\right)_S P - \left(\begin{array}{c}O\\II\\O-C-O-Q\end{array}\right)_T$$

Reply to Office Action of November 12, 2008

wherein P is an aromatic group having 6 to 20 carbon atoms with a valence of (r + 1), Q represents an organic group having 4 to 30 carbon atoms, r is an integer of 1 to 10, and s is an integer of 0 to 10, or an organic group represented by any of the following formulas,

$$Ar - CH_2 - Ar -$$

wherein Ar is a phenyl group or a naphthyl group substituted with RO- and/or ROCO-, wherein R is a tert-butyl group, tert-butyloxycarbonylmethyl group, tert-butyloxycarbonyl group, 1-tetrahydropyranyl group, 1-tetrahydrofuranyl group, 1-ethoxyethyl group, 1-phenoxyethyl group, or an organic group shown by the following formula,

$$-\left(-\frac{H_2}{C}\right)_{S}P-\left(-\frac{O}{C}-O-Q\right)_{r}$$

wherein P is an aromatic group having 6 to 20 carbon atoms with a valence of (r + 1), Q represents an organic group having 4 to 30 carbon atoms, r is an integer of 1 to 10, and s is an integer of 0 to 10,

X, Y, and Z individually represent a single bond or an ether bond, and 1 + m + n = 8.

Claim 44 (New): The photoresist composition according to claim 43, wherein the extreme ultraviolet-radiation reactive organic compound is in an amorphous state at room temperature and the average diameter of the molecule is 2 nm or less.

Claim 45 (New): The photoresist composition according to claim 43, wherein A is the organic group represented by the following formula,

Application No. 10/594,282

Reply to Office Action of November 12, 2008

B, C, and D are individually an organic group shown by the following formula,

$$-\left(-\frac{H_2}{C}\right)_{S}P-\left(-O-C-O-Q\right)_{r}$$

wherein P is an aromatic group having 6 to 20 carbon atoms with a valence of (r + 1), Q represents an organic group having 4 to 30 carbon atoms, r is an integer of 1 to 10, and s is an integer of 0 to 10, and

X, Y, and Z are ether bonds.

Claim 46 (New): A photoresist composition comprising a photoresist base material that is a radiation-reactive organic compound shown by formula (2), obtained by washing with an acidic aqueous solution and processing with an ion-exchange resin, a photoacid generator or a photobase generator, and a quenching agent,

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wherein A is an organic group represented by the following formula,

Application No. 10/594,282

Reply to Office Action of November 12, 2008

B, C, and D are individually an organic group shown by formula,

$$\frac{-\left(\frac{H_2}{C}\right)_s}{\left(\frac{H_2}{C}\right)_s}P - \left(\frac{O}{C} - O - Q\right)_r$$

wherein P is an aromatic group having 6 to 20 carbon atoms with a valence of (r + 1), Q represents an organic group having 4 to 30 carbon atoms, r is an integer of 1 to 10, and s is an integer of 0 to 10,

X, Y, and Z individually represent a single bond or an ether bond, and 1 + m + n = 8.

Claim 47 (New): The photoresist composition according to claim 46, wherein the organic group shown by the following formula,

$$-\left(\begin{matrix} H_2 \\ C \end{matrix}\right)_S P - \left(\begin{matrix} O \\ O \end{matrix}\right)_C - O - Q \\ 0 \end{matrix}\right)_r$$

is a 4-(tert-butoxycarbonyloxy)benzyl group or a 3,5-di(tert-butoxycarbonyloxy)benzyl group.

Claim 48 (New): The photoresist composition according to claim 46, wherein the radiation is extreme ultraviolet radiation or an electron beam.

Application No. 10/594,282

Reply to Office Action of November 12, 2008

Claim 49 (New): The photoresist composition according to claim 46, wherein the

basic impurity content of the photoresist base material is not more than 10 ppm.